



PATENT

Our Docket: P-AR 4681

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of:  
Zhao et al.

Serial No.: 09/922,226

Filed: August 2, 2001

For: METHODS OF SCREENING FOR  
COMPOUNDS THAT MODULATE  
HORMONE RECEPTOR ACTIVITY)

) Group Art Unit: 1645

) Examiner: Not Yet Assigned

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) January 23, 2002.

By Andrea L. Gashler

Andrea L. Gashler, Reg. No. 41,029

January 23, 2002

Date of Signature

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449, and a copy of each is enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and that their consideration be made of written record in the application file.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-0370.

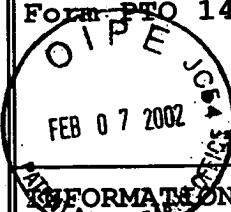
Respectfully submitted,

Date: January 23, 2002

Andrea L. Gashler  
Andrea L. Gashler  
Registration No.: 41,029  
Telephone: (858) 535-9001  
Facsimile: (858) 535-8949

Campbell & Flores LLP  
4370 La Jolla Village Drive, 7<sup>th</sup> Floor  
San Diego, California 92122  
USPTO CUSTOMER NO. 23601

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	APPLICANT: Zhao et al.		
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### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANS-L ATION YES/NO
		WO 00/64260	11/02/2000	PCT			

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

		Adam-Stitah et al., "Hyperphosphorylation of the Retinoid X Receptor $\alpha$ by Activated c-Jun NH <sub>2</sub> -terminal Kinases," <u>J. Biol. Chemistry</u> 274:18932-18941 (1999)
		Adams et al., "Transcriptional activation by peroxisome proliferator-activated receptor $\gamma$ is inhibited by phosphorylation at a consensus mitogen-activated protein kinase site," <u>J. Biol. Chemistry</u> 272:5128-5132 (1997)
		Boonyaratanakornkit et al., "Progesterone Receptor Contains Proline-Rich Sequences That Directly Interact with SH3 Domains of Src-Tyrosine Kinase Family Members," <u>ENDO 2000 Annual Meeting</u> , Abstract No. 1402 (2000)

EXAMINER	DATE CONSIDERED
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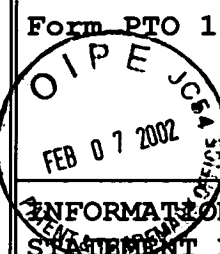
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	APPLICANT: Zhao et al.		
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	Brooks et al., "Myeloid differentiation and retinoblastoma phosphorylation changes in HL-60 cells induced by retinoic acid receptor- and retinoid X receptor-selective retinoic acid analogs," <u>Blood</u> 87:227-237 (1996)
	Brubaker and Gay, "Estrogen stimulates protein tyrosine phosphorylation and Src kinase activity in avian osteoclasts," <u>J. Cell. Biochem.</u> 76:206-216 (1999)
	Buitrago et al., "Activation of Src kinase in skeletal muscle cells by 1,25-(OH) <sub>2</sub> -vitamin D <sub>3</sub> correlates with tyrosine phosphorylation of the vitamin D receptor (VDR) and VDR-Src interaction," <u>J. Cell. Biochem.</u> 79:274-281 (2000)
	Castoria et al., "Non-transcriptional action of oestradiol and progestin triggers DNA synthesis," <u>EMBO Journal</u> 18:2500-2510 (1999)
	Chen et al., "Activation of estrogen receptor $\alpha$ by S118 phosphorylation involves a ligand-dependent interaction with TFIID and participation of CDK7," <u>Mol. Cell.</u> 6:127-137 (2000)
	Chen et al., "Up-Regulation of the cAMP/PKA Pathway Inhibits Proliferation, Induces Differentiation, and Leads to Apoptosis in Malignant Gliomas," <u>Laboratory Investigation</u> 78:165-174 (1998)
	Cho-Chung et al., "cAMP-dependent protein kinase: Role in normal and malignant growth," <u>Critical Reviews in Oncology/Hematology</u> 21:33-61 (1995)
	Cho-Chung and Clair, "The Regulatory Subunit of cAMP-Dependent Protein Kinase as a Target for Chemotherapy of Cancer and other Cellular Dysfunctional-Related Diseases," <u>Pharmac. Ther.</u> 60:265-288 (1993)

EXAMINER	DATE CONSIDERED
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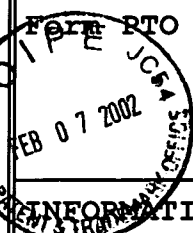
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	Christ et al., "Nongenomic Steroid Actions: Fact or Fantasy," <u>Vitamins and Hormones</u> 57:325-373 (1999)
	de Boland and Norman, "1 $\alpha$ ,25(OH) <sub>2</sub> -vitamin D <sub>3</sub> signaling in chick enterocytes: Enhancement of tyrosine phosphorylation and rapid stimulation of mitogen-activated protein (MAP) kinase," <u>J. Cell Biochem.</u> 69:470-482 (1998)
	Davis et al., "Thyroxine Promotes Association of Mitogen-activated Protein Kinase and Nuclear Thyroid Hormone Receptor (TR) and Causes Serine Phosphorylation of TR," <u>J. Biol. Chemistry</u> 275:38032-38039 (2000)
	Delmotte et al., "Serine 157, a Retinoic Acid Receptor $\alpha$ Residue Phosphorylated by Protein Kinase C <i>in Vitro</i> , Is Involved in RXR-RAR $\alpha$ Heterodimerization and Transcriptional Activity," <u>J. Biol. Chemistry</u> 274:38225-38231 (1999)
	Fantin et al., "Characterization of insulin receptor substrate 4 in human embryonic kidney 293 cells," <u>J. Biol. Chem.</u> 273:10726-10732 (1998)
	Filardo et al., "Estrogen-induced activation of Erk-1 and Erk-2 requires the G protein-coupled receptor homolog, GPR30, and occurs via <i>trans</i> -activation of the epidermal growth factor receptor through release of HB-EGF," <u>Mol. Endocrin.</u> 14:1649-1660 (2000)
	Fraser et al., "The Putative Cofactor TIF1 $\alpha$ Is a Protein Kinase That Is Hyperphosphorylated upon Interaction with Liganded Nuclear Receptors," <u>J. Biol. Chemistry</u> 273:16199-16204 (1998)
	Garcia et al., "Chick Oviduct Progesterone Receptor Phosphorylation: Characterization of a Copurified Kinase and Phosphorylation in Primary Cultures," <u>J. Steroid Biochem.</u> 27:227-234 (1987)

EXAMINER	DATE CONSIDERED
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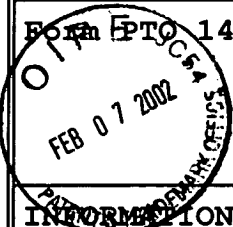
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	Giguère, "Orphan Nuclear Receptors: From Gene to Function," <u>Endocrine Reviews</u> 20:689-725 (1999)
	Glineur et al., "The <i>c-erbA</i> $\alpha$ -encoded thyroid hormone receptor is phosphorylated in its amino terminal domain by casein kinase II," <u>Oncogene</u> 4:1247-1254 (1989)
	Gniadecki "Activation of Raf-mitogen-activated protein kinase signaling pathway by 1,25-dihydroxyvitamin D <sub>3</sub> in normal human keratinocytes," <u>J. Invest. Dermatol.</u> 106:1212-1217 (1996)
	Goldberg et al., "Activation of protein kinase C or cAMP-dependent protein kinase increases phosphorylation of the <i>c-erbA</i> -encoded thyroid hormone receptor and of the <i>v-erbA</i> -encoded protein," <u>EMBO Journal</u> 7:2425-2433 (1988)
	Graves et al., "Substrate and Inhibitor Recognition of Protein Kinases: What is Known about the Catalytic Subunit of Phosphorylase Kinase," <u>Pharmacol. Ther.</u> 82:143-155 (1999)
	Hammer et al., "Phosphorylation of the nuclear receptor SF-1 modulates cofactor recruitment: Integration of hormone signaling in reproduction and stress," <u>Mol. Cell.</u> 3:521-526 (1999)
	Harish et al., "Serine 27, a Human Retinoid X Receptor $\alpha$ Residue, Phosphorylated by Protein Kinase A is Essential for Cyclic/AMP-Mediated Downregulation of RXR $\alpha$ Function," <u>Biochem. and Biophys. Res. Comm.</u> 279:853-857 (2000)
	Hirata et al., "Induction of a nerve growth factor-sensitive kinase that phosphorylates the DNA-binding domain of the orphan nuclear receptor NGFI-B," <u>J. Neurochem.</u> 65:1780-1788 (1995)

EXAMINER	DATE CONSIDERED
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		<b>FILING DATE:</b> August 2, 2001	<b>GROUP:</b> 1645

		Hu et al., "Inhibition of adipogenesis through MAP kinase-mediated phosphorylation of PPAR $\gamma$ ," <u>Science</u> 274:2100-2103 (1996)
		Ihle, "Cytokine Receptor Signalling," <u>Nature</u> 377:591-594 (1995)
		Isakov et al., "The role of tyrosine kinases and phosphotyrosine-containing recognition motifs in regulation of the T cell-antigen receptor-mediated signal transduction pathway," <u>J. Leukocyte Biol.</u> 55:265-271 (1994)
		Johnson et al., "The structural basis for substrate recognition and control by protein kinases," <u>FEBS Letters</u> 430:1-11 (1988)
		Kane and Means, "Activation of orphan receptor-mediated transcription by Ca <sup>2+</sup> /calmodulin-dependent protein kinase IV," <u>EMBO Journal</u> 19:691-701 (2000)
		Katagiri et al., "Modulation of retinoid signalling through NGF-induced nuclear export of NGFI-B," <u>Nature Cell Biology</u> 2:435-440 (2000)
		Kemp and Pearson, "Design and Use of Peptide Substrates for Protein Kinases," <u>Methods in Enzymology</u> 200:121-134 (1991)
		Kemp and Pearson, "Protein kinase recognition sequence motifs," <u>TIBS</u> 15:342-346 (1990)
		Kopf et al., "Dimerization with Retinoid X Receptors and phosphorylation Modulate the Retinoic Acid-induced Degradation of Retinoic Acid Receptors $\alpha$ and $\gamma$ through the Ubiquitin-Proteasome Pathway," <u>J. Biol. Chemistry</u> 275:33280-33288 (2000)
		Kumar and Thompson, "The structure of the nuclear hormone receptors," <u>Steroids</u> 64:310-319 (1999)

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	APPLICANT: Zhao et al.	
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		Laudet, "Evolution of the nuclear receptor superfamily: Early diversification from an ancestral orphan receptor," <u>J. Molecular Endocrinology</u> 19:207-226 (1997)
		Laudet, "A Unified Nomenclature System for the Nuclear Receptor Superfamily," <u>Cell</u> 97:161-163 (1999)
		Lazennec et al., "Activation of Peroxisome Proliferator-Activated Receptors (PPARs) by Their Ligands and protein Kinase A Activators," <u>Molecular Endocrinology</u> 14:1962-1975 (2000)
		Lee et al., "All-trans-Retinoic Acid Inhibits Jun N-Terminal Kinase by Increasing Dual-Specificity Phosphatase Activity," <u>Molecular and Cellular Biology</u> 19:1973-1980 (1999)
		Lee et al., "Stress Pathway Activation Induces Phosphorylation of Retinoid X Receptor," <u>J. Biol. Chemistry</u> 275:32193-32199 (2000)
		Lemmon et al., "PH Domains: Diverse Sequences with a Common Fold Recruit Signaling Molecules to the Cell Surface," <u>Cell</u> 85:621-624 (1996)
		Lemmon and Ferguson, "Pleckstrin Homology Domains," <u>Current Topics Micro. Immunol.</u> 228:39-74 (1998)
		Lemmon and Ferguson, "Signal-dependent membrane targeting by pleckstrin homology (PH) domains," <u>Biochem. J.</u> 350:1-18 (2000)
		Lin et al., "Potentiation by Thyroid Hormone of Human IFN- $\gamma$ -Induced HLA-DR Expression," <u>J. Immunology</u> 161:843-849 (1998)
		Lin et al., "Thyroid hormone induces activation of mitogen-activated protein kinase in cultured cells," <u>Am. J. Physiol.</u> 276:C1014-C1024 (1999)

EXAMINER	DATE CONSIDERED
----------	-----------------

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		Lin et al., "Thyroid hormone promotes the phosphorylation of STAT3 and potentiates the action of epidermal growth factor in cultured cells," <u>Biochem. J.</u> 338:427-432 (1999)
		Logeat et al., "The nuclear-bound form of the progesterone receptor is generated through a hormone-dependent phosphorylation," <u>Biochem. Biophys. Res. Commun.</u> 131:421-427 (1985)
		Lyakhovich et al., "Vitamin D and MAPK Activation in MCF7 and LNCaP Cells," <u>ENDO 2000 Annual Meeting</u> , Abstract No. 761 (2000)
		Migliaccio et al., "Activation of the Src/p21 <sup>ras</sup> /Erk pathway by progesterone receptor via cross-talk with estrogen receptor," <u>EMBO Journal</u> 17:2008-2018 (1998)
		Migliaccio et al., "Steroid-induced androgen receptor-oestradiol receptor $\beta$ -Src complex triggers prostate cancer cell proliferation," <u>EMBO Journal</u> 19:5406-5417 (2000)
		Migliaccio et al., "Tyrosine kinase/p21 <sup>ras</sup> /MAP-kinase pathway activation by estradiol-receptor complex in MCF-7 cells," <u>EMBO Journal</u> 15:1292-1300 (1996)
		Moilanen et al., "Activation of Androgen Receptor Function by a Novel Nuclear Protein Kinase," <u>Molecular Biology Cell</u> 9:2527-2543 (1998)
		Musacchio et al., "The PH domain: A common piece in the structural patchwork of signalling proteins," <u>Trends Biochem. Sci.</u> 18:343-348 (1993)
		Newton and Johnson, "Protein kinase C: A paradigm for regulation of protein function by two membrane-targeting modules," <u>Biochimica et Biophysica Acta</u> 1376:155-172 (1998)

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	Pawson et al., "Proteins with SH2 and SH3 domains couple receptor tyrosine kinases to intracellular signalling pathways," <u>Philos. Trans. R. Soc. Lond. B. Biol. Sci.</u> 340:279-285 (1993)
	Pearson and Kemp, "Protein Kinase Phosphorylation Site Sequences and Consensus Specificity Motifs: Tabulations," <u>Methods in Enzymology</u> 200:62-81 (1991)
	Pestka et al., "Introduction of Protein Kinase Recognition Sites into Proteins: A Review of Their Preparation, Advantages, and Applications," <u>Protein Expression and Purification</u> 17:203-214 (1999)
	Resh, "Fatty acylation of proteins: New insights into membrane targeting of myristoylated and palmitoylated proteins," <u>Biochimica et Biophysica Acta</u> 1451:1-16 (1999)
	Rochette-Egly et al., "Phosphorylation of the Retinoic Acid Receptor- $\alpha$ by Protein Kinase A," <u>Molecular Endocrinology</u> 9:860-871 (1995)
	Saraste and Hyvönen, "Pleckstrin homology domains: A fact file," <u>Current Opinion in Structural Biology</u> 5:403-408 (1995)
	Schmidt et al., "Rapid, Nongenomic Steroid Actions: A New Age?," <u>Frontiers in Neuroendocrinology</u> 21:57-94 (2000)
	Scott and McCartney, "Localization of A-kinase through anchoring proteins," <u>Mol. Endocrinol.</u> 8:5-11 (1994)
	Shao and Lazar, "Modulating nuclear receptor function: May the phos be with you," <u>J. Clin. Invest.</u> 103:1617-1618 (1999)
	Shaw, "The pleckstrin homology domain: An intriguing multifunctional protein module," <u>BioEssays</u> 18:35-46 (1995)

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	Sluder et al., "The nuclear receptor superfamily has undergone extensive proliferation and diversification in nematodes," <u>Genome Res.</u> 9:103-120 (1999)
	Solomon et al., "Mitogen-activated protein kinase inhibits 1,25-dihydroxyvitamin D <sub>3</sub> -dependent signal transduction by phosphorylating human retinoid X receptor $\alpha$ ," <u>J. Clin. Invest.</u> 103:1729-1735 (1999)
	Solomon et al., "Vitamin D resistance in RAS-transformed keratinocytes: Mechanism and reversal strategies," <u>Radiat. Res.</u> 155:156-162 (2001)
	Song et al., "Stimulation of phosphorylation of mitogen-activated protein kinase by 1 $\alpha$ ,25-dihydroxyvitamin D <sub>3</sub> in promyelocytic NB4 leukemia cells: A structure-function study," <u>Endocrinology</u> 139:457-465 (1998)
	Songyang, "Recognition and regulation of primary-sequence motifs by signaling modular domains," <u>Prog. Biophys. Mol. Biol.</u> 71:359-372 (1999)
	Sullivan et al., "Hormone-dependent processing of the avian progesterone receptor," <u>J. Cell. Biochem.</u> 36:103-119 (1988)
	Tahayato et al., "Analysis of Retinoid Receptor Phosphorylation," <u>Methods in Molecular Biology</u> 89:277-291 (1998)
	Taneja et al., "Phosphorylation of activation functions AF-1 and AF-2 of RAR $\alpha$ and RAR $\gamma$ is indispensable for differentiation of F9 cells upon retinoic acid and cAMP treatment," <u>EMBO Journal</u> 16:6452-6465 (1997)
	Thacher et al., "Therapeutic applications for ligands of retinoid receptors," <u>Curr. Pharm. Design</u> 6:25-58 (2000)

EXAMINER	DATE CONSIDERED
----------	-----------------


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		Ting and Cheng, "Hormone-activated phosphorylation of human $\beta$ 1 thyroid hormone nuclear receptor," <u>Thyroid</u> 7:463-469 (1997)
		Virkamaki et al., "Protein-protein interaction in insulin signaling and the molecular mechanisms of insulin resistance," <u>J. Clin. Invest.</u> 103:931-943 (1999)
		Whitfield et al., "Steroid Hormone Receptors: Evolution, Ligands, and Molecular Basis of Biologic Function," <u>J. Cell. Biochem. Suppl.</u> 32/33:110-122 (1999)
		Williams and Sigler, "Atomic structure of progesterone complexed with its receptor," <u>Nature</u> 393:392-396 (1998)
		Winston and Hunter, "Intracellular signalling: Putting JAKs on the kinase MAP," <u>Curr. Biol.</u> 6:668-671 (1996)
		Yan et al., "Protein phosphorylation: Technologies for the Identification of Phosphoamino Acids," <u>J. Chromatography A</u> 808:23-41 (1998)
		Yen et al., "Retinoic acid induced mitogen-activated protein (MAP)/extracellular signal-regulated kinase (ERK) kinase-dependent MAP kinase activation needed to elicit HL-60 cell differentiation and growth arrest," <u>Cancer Res.</u> 58:3163-3172 (1998)
		Zetterqvist et al., "Substrate Specificity of Cyclic AMP-Dependent Protein Kinase," In: <u>Peptides and Protein Phosphorylation</u> . (Kemp ed.), Chapter 7, pages 171-187 (1990)
		Zhang et al., "Insulin- and mitogen-activated protein kinase-mediated phosphorylation and activation of peroxisome proliferator-activated receptor $\gamma$ ," <u>J. Biol. Chem.</u> 271:31771-31774 (1996)

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----------	-----------------

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		Zhou et al., "Action of insulin receptor substrate-3 (IRS-3) and IRS-4 to stimulate translocation of GLUT4 in rat adipose cells," Mol. Endocrinol. 13:505-514 (1999)
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